

ULTRAPRINT **DESIGN**

CMYK PAM10 Resin

PAM10 resins are available in five mixable basic colors: CMYK+W. Possessing mechanical properties similar to ABS, and it maintains dimensional accuracy and high success rates, unaffected by color changes.

These resins are suitable for end-product casings and creative 3D prints with customized colors.



Mixable color resins for a full color spectrum



ABS-like mechanical properties



±0.05mm Printed part tolerance of ±0.05 mm



High print success rate

Color

Cyan ● Magenta ● Yellow ●
Black ● White ●

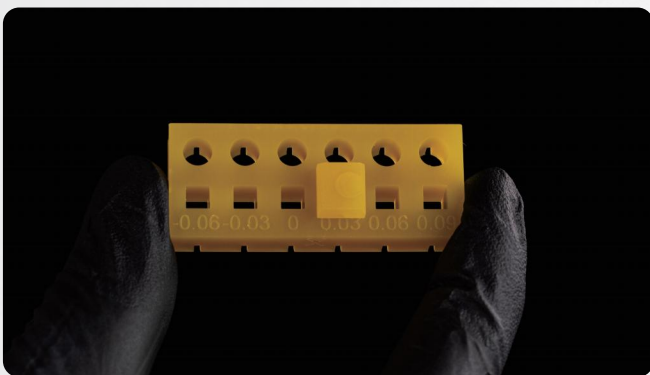
Specifications

1000g/Bottle

Basic Performance¹

	Property	Standard	Results (Black)	Results (White)	Unit
Toughness	Impact Strength (Notched)	ASTM D256	35	50	J/m
	Elongation at Break	ASTM D638	20	25	%
	Work of Fracture	ISO 20795.1	4100	7480	J/m ²
Stiffness	Tensile Modulus	ASTM D638	1600	1490	MPa
	Flexural Modulus	ASTM D790	1650	1540	MPa
Strength	Tensile Strength	ASTM D638	45	47	MPa
	Flexural Strength	ASTM D790	65	60	MPa
Thermal Resistance	Heat Deflection Temperature @0.455 MPa	ASTM D648	59 (138.2)	63 (145.4)	°C (°F)
Others	Hardness	ASTM D2240	80	82	Shore D
	Water Sorption	ASTM D570	0.9	1.2	%
Additional Passed Tests	UV Light Aging Test ²	ASTM G154	600	600	h
	Thermal Accelerated Aging Test ³	YY/T 0681.1	1600	600	h
	Damp Heat Test	IEC 60068-2-78	✓	✓	/
	Temperature Change Test	GB/T 2423.22	✓	✓	/
	Color Fastness Test	ISO 105-E04	✓	✓	/

Exceptional Results



Consistent dimensional accuracy

*Special thanks to the fantastic model designer:33变模玩 (Chinese Maker).

¹ Data from HeyGears Lab. The material results are the average values from testing, with a deviation of $\pm 10\%$.

² Equivalent to 8 years of indoor use or 1 year of outdoor use, the material's properties degrade by less than 30%, with a non-significant color change ($\Delta E < 2$) and a dimensional deviation of ± 0.1 mm.

³ Equivalent to 1 years of outdoor use, the material's properties degrade by less than 30%, with a non-significant color change ($\Delta E < 2$) and a dimensional deviation of ± 0.1 mm.

Sample Request

